ELSEVIER

Journal of Controlled Release 60 (1999) 423–425

journal of controlled release

Contents Volume 60 (1999)

Vol. 60, No. 1 (28 JUNE 1999)

Transdermal iontophoretic delivery of enoxacin from various liposome-encapsulated formulations
J.-Y. Fang (Taipei, Taiwan), K.C. Sung, H.-H. Lin (Tainan Hsien, Taiwan) and C.-L. Fang (Taipei, Taiwan) 1
Poly(fumaric–co-sebacic anhydride). A degradation study as evaluated by FTIR, DSC, GPC and X-ray diffraction
C.A. Santos, B.D. Freedman, K.J. Leach, D.L. Press, M. Scarpulla and E. Mathiowitz (Providence, RI, USA) 11
Factors influencing nonoxynol-9 permeation and bioactivity in cervical mucus
D.H. Owen, E.N. Dunmire, A.M. Plenys and D.F. Katz (Durham, NC, USA) 23
Comparison of the effects of short, high-voltage and long, medium-voltage pulses on skin electrical and transport properties
R. Vanbever (Cambridge, MA, USA and Brussels, Belgium), U.F. Pliquett (Cambridge, MA, USA and Bielefeld, Germany), V. Préat (Brussels, Belgium) and J.C. Weaver (Cambridge, MA, USA) 35
Evaluation of the use of xanthan as vehicle for cationic antifungal peptides
A.L.A. Ruissen, W.A. van der Reijden, W. van't Hof, E.C.I. Veerman and A.V. Nieuw Amerongen (Amsterdam, The Netherlands) 49
Sol–gel composite films with controlled release of biocides
H. Böttcher, C. Jagota, J. Trepte, K.-H. Kallies (Sebnitz, Germany) and H. Haufe (Halle, Germany) 57
Percutaneous absorption of sunscreens from liquid crystalline phases
L. Brinon, S. Geiger (Châtenay-Malabry, France), V. Alard (Saint Jean de Braye, France), J. Doucet (Orsay, France), J.-F. Tranchant (Saint Jean de Braye, France) and G. Couarraze (Châtenay-Malabry, France) 67
Thermodynamic prediction of active ingredient loading in polymeric microparticles
G. Tse, D. Blankschtein (Cambridge, MA, USA), A. Shefer and S. Shefer (Union Beach, NJ, USA) 77
Spatially constrained localized transport regions due to skin electroporation
T.R. Gowrishankar (Cambridge, MA, USA), T.O. Herndon (Lexington, MA, USA), T.E. Vaughan and J.C. Weaver (Cambridge, MA, USA) 101
A dose–response study of epidural liposomal bupivacaine in rabbits
J.-M. Malinovsky (Nantes, France), P. Le Corre (Rennes, France), J.-F. Meunier (Nantes, France), F. Chevanne (Rennes, France), M. Pinaud (Nantes, France), R. Leverge (Rennes, France) and F. Legros (Bruxelles, Belgium) 111
Stealth® PEGylated polycyanoacrylate nanoparticles for intravenous administration and splenic targeting
M.T. Peracchia, E. Fattal, D. Desmaële, M. Besnard (Châtenay-Malabry, France), J.P. Noël, J.M. Gomis (Saclay, France), M. Appel, J. d'Angelo and P. Couvreur (Châtenay-Malabry, France) 121
Perivascular delivery of heparin for the reduction of smooth muscle cell proliferation after endothelial injury
D. Teomim, I. Fishbien and G. Golomb (Jerusalem, Israel), L. Orloff (Seattle, WA, USA), M. Mayberg (San Diego, CA, USA) and A.J. Domb (Jerusalem, Israel) 129

Book Reviews 143

Calendar 145

Vol. 60, Nos. 2–3 (5 AUGUST 1999)

Review

Poly(ethylenimine) and its role in gene delivery
W.T. Godbey, K.K. Wu and A.G. Mikos (Houston, TX, USA) 149
Cross-linked amylose tablets containing α-amylase: an enzymatically-controlled drug release system
Y. Dumoulin, L.H. Cartilier and M.A. Mateescu (Montreal, Canada) 161
Lidocaine loaded biodegradable nanospheres. II. Modelling of drug release
M. Polakovič (Bratislava, Slovak Republic), T. Görner, R. Gref and E. Dellacherie (Nancy, France) 169
Preparation and characterization of protein C-loaded PLA nanoparticles
M.F. Zambaux, F. Bonneaux (Nancy, France) R. Gref (Nancy and Châtenay-Malabry, France), E. Dellacherie and C. Vigneron (Nancy, France) 179
Folic acid–PEO-labeled liposomes to improve gastrointestinal absorption of encapsulated agents
K.E. Anderson, B.R. Stevenson and J.A. Rogers (Edmonton, Canada) 189
Mechanism of drug release from poly(L-lactic acid) matrix containing acidic or neutral drugs
M. Miyajima, A. Koshika, J. Okada and M. Ikeda (Tokyo, Japan) 199
Degradable dextran hydrogels: controlled release of a model protein from cylinders and microspheres
O. Franssen, L. Vandervennet, P. Roders and W.E. Hennink (Utrecht, The Netherlands) 211
TR146 cells grown on filters as a model of human buccal epithelium: permeability of fluorescein isothiocyanate-labelled dextrans in the presence of sodium glycocholate
H.M. Nielsen (Copenhagen, Denmark), J.C. Verhoef, M. Ponec (Leiden, The Netherlands) and M.R. Rassing (Copenhagen, Denmark) 223
Alkylated poly(L-lysine citramide) as models to investigate the ability of amphiphilic macromolecular drug carriers to physically entrap lipophilic compounds in aqueous media
S. Gautier (Liège, Belgium), M. Boustta and M. Vert (Montpellier, France) 235
Thermosensitive polymers as carriers for DNA delivery
W.L.J. Hinrichs, N.M.E. Schuurmans-Nieuwenbroek, P. van de Wetering and W.E. Hennink (Utrecht, The Netherlands) 249
Distribution of khellin in excised human skin following iontophoresis and passive dermal transport
B. Marconi, F. Mancini, P. Colombo, F. Allegra, F. Giordano (Parma, Italy), A. Gazzaniga (Milan, Italy), G. Orecchia (Pavia, Italy) and P. Santi (Parma, Italy) 261
Sustained release of heparin from polymeric particles for inhibition of human vascular smooth muscle cell proliferation
Z. Yang, P. Birkenhauer (Zurich, Switzerland), F. Julmy (Bern, Switzerland), D. Chickering, J.P. Ranieri (Austin, TX, USA), H.P. Merkle, T.F. Lüscher and B. Gander (Zürich, Switzerland) 269
Influence of formulation parameters on the characteristics of poly(D,L-lactide-co-glycolide) microspheres containing poly(L-lysine) complexed plasmid DNA
Y. Capan (Ankara, Turkey), B.H. Woo, S. Gebrekidan, S. Ahmed and P.P. DeLuca (Lexington, KY, USA) 279
In situ-gelling gellan formulations as vehicles for oral drug delivery
S. Miyazaki, H. Aoyama, N. Kawasaki, W. Kubo (Hokkaido, Japan) and D. Attwood (Manchester, UK) 287
Degradation and protein release properties of microspheres prepared from biodegradable poly(lactide-co-glycolide) and ABA triblock copolymers: influence of buffer media on polymer erosion and bovine serum albumin release
B. Bittner, C. Witt, K. Mäder and T. Kissel (Marburg, Germany) 297
Factors affecting membrane-controlled drug release for an osmotic pump tablet (OPT) utilizing $(SBE)_{7m}$-β-CD as both a solubilizer and osmotic agent
K. Okimoto, A. Ohike, R. Ibuki, O. Aoki, N. Ohnishi (Osaka, Japan), R.A. Rajewski, V.J. Stella (Lawrence, KS, USA), T. Irie and K. Uekama (Kumamoto, Japan) 311
High-molecular weight HPMA copolymer–adriamycin conjugates
M. Dvořák, P. Kopečková and J. Kopeček (Salt Lake City, UT, USA) 321
Delivery of glipizide from asymmetric membrane capsules using encapsulated excipients
A.G. Thombre, A.R. DeNoto and D.C. Gibbes (Groton, CT, USA) 333

Effect of DNA topology on the transfection efficiency of poly((2-dimethylamino)ethyl methacrylate)–plasmid complexes
J.-Y. Cherng, N.M.E. Schuurmans-Nieuwenbroek, W. Jiskoot, H. Talsma, N.J. Zuidam, W.E. Hennink and D.J.A. Crommelin (Utrecht, The Netherlands) 343
Gelatin-stabilised microemulsion-based organogels: rheology and application in iontophoretic transdermal drug delivery
S. Kantaria, G.D. Rees and M.J. Lawrence (London, UK) 355
Novel hydrogel system from scleroglucan: synthesis and characterization
T. Coviello (Rome, Italy), M. Grassi (Trieste, Italy), G. Rambone, E. Santucci, M. Carafa, E. Murtas, F.M. Riccieri and F. Alhaique (Rome, Italy) 367
Diffusion-controlled drug delivery systems: calculation of the required composition to achieve desired release profiles
J. Siepmann, F. Lecomte and R. Bodmeier (Berlin, Germany) 379
Extrusion of niosomes from capillaries: approaches to a pulsed delivery device
P. Arunothayanun, T. Sooksawate and A.T. Florence (London, UK) 391
Influence of phase transformation on indomethacin release from microemulsions
M. Trotta (Torino, Italy) 399

Book Reviews 407
Erratum 411
Instructions to Authors 413

Author Index Volume 60 417
Subject Index Volume 60 421
Contents Volume 60 423

Influence of formulation parameters on the characteristics of poly(D,L-lactide-co-glycolide) microspheres containing poly(L-lysine) complexed plasmid DNA
Y. Capan (Ankara, Turkey), B.H. Woo, S. Gebrekidan, S. Ahmed and P.P. DeLuca (Lexington, KY, USA) 279
In situ-gelling gellan formulations as vehicles for oral drug delivery
S. Miyazaki, H. Aoyama, N. Kawasaki, W. Kubo (Hokkaido, Japan) and D. Attwood (Manchester, UK) 287
Degradation and protein release properties of microspheres prepared from biodegradable poly(lactide-co-glycolide) and ABA triblock copolymers: influence of buffer media on polymer erosion and bovine serum albumin release
B. Bittner, C. Witt, K. Mäder and T. Kissel (Marburg, Germany) 297
Factors affecting membrane-controlled drug release for an osmotic pump tablet (OPT) utilizing $(SBE)_{7m}$-β-CD as both a solubilizer and osmotic agent
K. Okimoto, A. Ohike, R. Ibuki, O. Aoki, N. Ohnishi (Osaka, Japan), R.A. Rajewski, V.J. Stella (Lawrence, KS, USA), T. Irie and K. Uekama (Kumamoto, Japan) 311
High-molecular weight HPMA copolymer–adriamycin conjugates
M. Dvořák, P. Kopečková and J. Kopeček (Salt Lake City, UT, USA) 321
Delivery of glipizide from asymmetric membrane capsules using encapsulated excipients
A.G. Thombre, A.R. DeNoto and D.C. Gibbes (Groton, CT, USA) 333
Effect of DNA topology on the transfection efficiency of poly((2-dimethylamino)ethyl methacrylate)–plasmid complexes
J.-Y. Cherng, N.M.E. Schuurmans-Nieuwenbroek, W. Jiskoot, H. Talsma, N.J. Zuidam, W.E. Hennink and D.J.A. Crommelin (Utrecht, The Netherlands) 343
Gelatin-stabilised microemulsion-based organogels: rheology and application in iontophoretic transdermal drug delivery
S. Kantaria, G.D. Rees and M.J. Lawrence (London, UK) 355
Novel hydrogel system from scleroglucan: synthesis and characterization
T. Coviello (Rome, Italy), M. Grassi (Trieste, Italy), G. Rambone, E. Santucci, M. Carafa, E. Murtas, F.M. Riccieri and F. Alhaique (Rome, Italy) 367
Diffusion-controlled drug delivery systems: calculation of the required composition to achieve desired release profiles
J. Siepmann, F. Lecomte and R. Bodmeier (Berlin, Germany) 379
Extrusion of niosomes from capillaries: approaches to a pulsed delivery device
P. Arunothayanun, T. Sooksawate and A.T. Florence (London, UK) 391
Influence of phase transformation on indomethacin release from microemulsions
M. Trotta (Torino, Italy) 399

Book Reviews 407
Erratum 411
Instructions to Authors 413

Author Index Volume 60 417
Subject Index Volume 60 421
Contents Volume 60 423